

What is Claimed is

1. A plasmid carrying gag, protease, env and rev
gene, all derived from SIV (Simian
5 immunodeficiency virus), but not tat and nef gene.

2. The plasmid according to the claim 1, which
contains DNA construct of SIV/GE gene described
in FIG. 1.
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3. The plasmid according to the claim 1, which is
pTV-SIV/GE described in FIG. 2 (Accession NO:
KCTC 0702BP).

4. A plasmid substituted SIV-derived genes which are
contained in the plasmid of the claim 1, by HIV
(Human immunodeficiency virus)-derived
corresponding genes.
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5. A plasmid carrying a SIV-derived pol gene
encoding for a reverse transcriptase and an
integrase.
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6. The plasmid according to the claim 5, wherein the
pol gene encodes the inactive integrase by
25 modifying the important site for enzyme activity

of integrase.

5 7. The plasmid according to the claim 6, wherein the important site for enzyme activity of integrase is the base at positions 5130-5135, the base at positions 5130-5132 is deleted, and the base at positions 5133-5135 is substituted by codon for serine.

10 8. The plasmid according to the claim 5, wherein the 5'-end of pol gene is fused to signal sequence of secretion protein.

15 9. The plasmid according to the claim 8, wherein the secretion protein is glycoprotein D (gD) of hepes simplex virus (HSV).

20 10. The plasmid according to the claim 5, which contains DNA construct of a SIV/pol gene described in FIG. 1.

25 11. The plasmid according to the claim 5, which is pTV-SIV/pol described in FIG. 2 (Acession NO: KCTC 0703BP).

12. A plasmid substituted SIV-derived genes which are contained in the plasmid of the claim 5, by HIV-

derived corresponding genes.

13.DNA vaccine for AIDS prevention and therapy
containing the plasmid of the claim 1 and the
5 plasmid of the claim 5.

14.DNA vaccine for AIDS prevention and therapy
containing the plasmid of the claim 4 and the
10 plasmid of the claim 12.